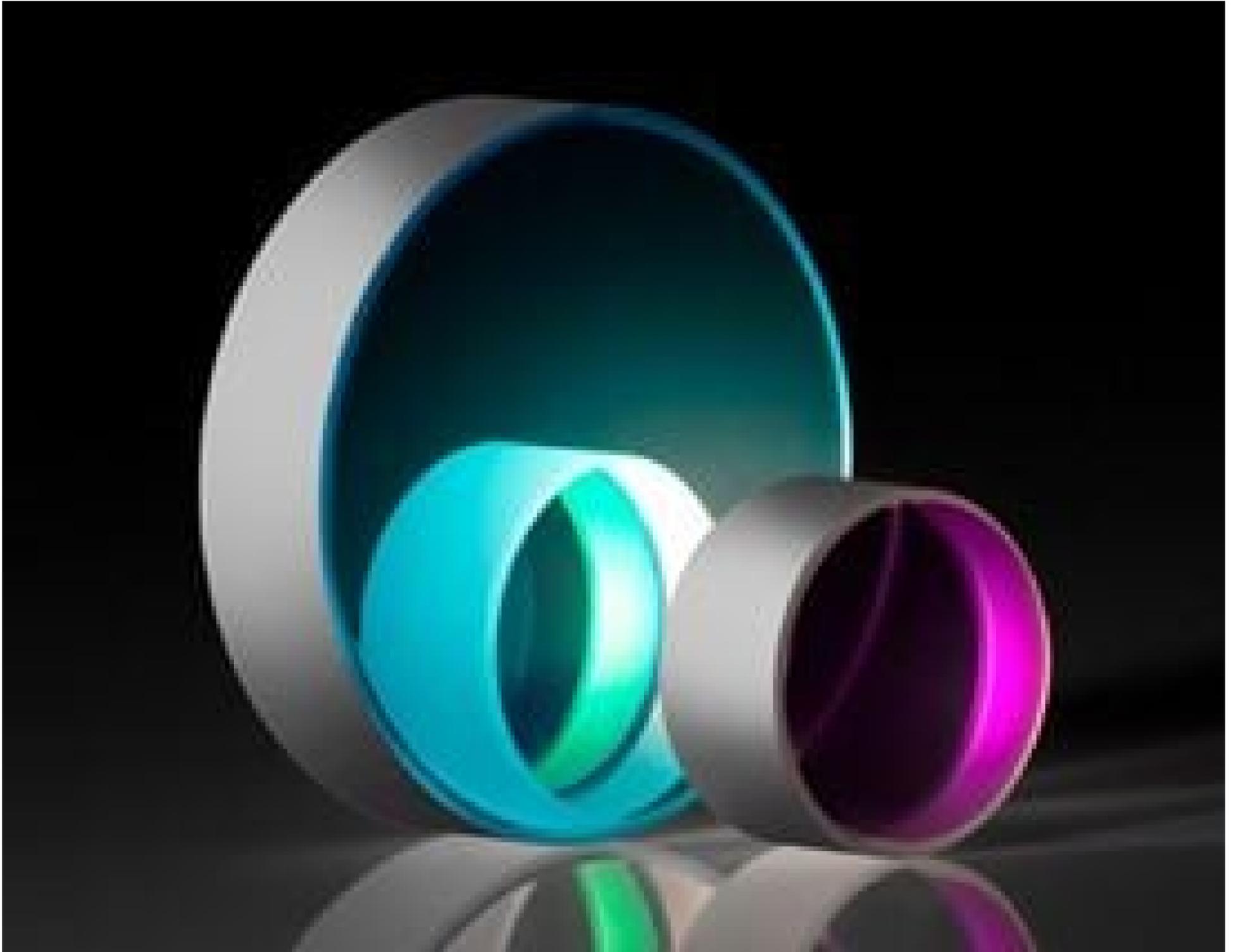


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12.7mm Dia. UHR Broadband Dielectric Mirror, 400-750nm



Stock #17-500 CLEARANCE **20+ In Stock**

S\$351⁴⁰

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General

Flat Mirror **Type:**

Physical & Mechanical Properties

12.70 +0.00/-0.10 **Diameter (mm):**

6.35 ±0.20 **Thickness (mm):**

11.7 **Clear Aperture CA (mm):**

Edges:

Ground

Parallelism (arcmin):
<3

Optical Properties

Dielectric **Coating Type:**

UHR Dielectric Mirror (400-750nm) **Coating:**

$\lambda/10$ **Surface Flatness (P-V):**

400 - 750 **Wavelength Range (nm):**

Substrate:
Fused Silica (Corning 7980)

45 **Angle of Incidence (°):**

Coating Specification:
 $R_{avg} >99.9\%$ @ 400 - 750nm (45°, s-pol)
 $R_{avg} >99.8\%$ @ 410 - 750nm (45°, p-pol)

10-5 **Surface Quality:**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- >99.8% Reflectivity over Broad Visible or NIR Wavelength Ranges
- 10-5 Surface Quality for Reduced Scatter in Sensitive Laser Applications
- $\lambda/10$ Surface Flatness

Ultra-High Reflectivity (UHR) Broadband Dielectric Mirrors are ideal for use with broadband **laser** or **illumination** sources in applications that require low reflection loss. These mirrors feature laser grade substrates with $\lambda/10$ surface flatness and 10-5 surface quality to minimize scattering effects. Coated with durable dielectric coatings, these mirrors are designed for >99.8% average reflectivity throughout the visible (400 - 750nm) or NIR (740 - 1100nm) spectra, independent of polarization. With a high-quality fused silica substrate, Ultra-High Reflectivity (UHR) Broadband Dielectric Mirrors feature a low coefficient of thermal expansion.

Coating Note: Coating designs measured and verified at 532, 632.8, and 1064nm via cavity ring-down spectroscopy (CRDS). Specs may not be verifiable on traditional spectrophotometer equipment.

Technical Information

